NOTATION ENABLING ALL ACTIVITY BETWEEN A SYSTEM AND A USER TO BE DEFINED, AND METHODS FOR USING THE SAME Abstract of the Disclosure

An activity based notational system defines actions (or processes) occurring between a user and a system using only four classes. *Inputters* describe data provided by the user to the system, and *Outputters* are the inverse of *Inputters*. Selectors describe items provided to the user by the system and the subsequent selection of those items by the user. *Invokers* describe a user action that changes the system's state without involving an exchange of data. In one embodiment, the notation is used to enable GUI forms to be automatically generated from a flow diagram. In other embodiments, a flow diagram is automatically generated when a GUI form created or modified, test scripts based on the notation in a diagram are generated and executed, test simulations of the system are executed, production of hardware components is controlled by a CAD drawing, and the scope of a flow diagram is determined.

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